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Complete if Known Substitute for form 1449A/PTO **Application Number** 10/021,661 INFORMATION DISCLOSURE Filing Date Oct. 30, 2001 STATEMENT BY APPLICANT **First Named Inventor** Thomas A. Wucherer Group Art Unit 2171 (use as many sheets as necessary) **Examiner Name** Unknown Attorney Docket Number TRIRG-08851US0 of Sheet

				U.S. PATENT DOCI	JMENTS	
Examiner Initials*	Cite No.1	U.S. Patent Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		4,799,156		Shavit et al.	01-17-1989	
		4,870,576		Tornetta	09-26-1989	
		4,972,318		Brown et al.	11-20-1990	
		4,992,940		Dworkin	02-12-1991	
		5,528,490		Hill	06-18-1996	
		5,666,493		Wojcik et al.	09-09-1997	
		5,694,551		Doyle et al.	12-02-1997	
		5,710,887		Chelliah et al.	01-20-1998	
		5,715,314		Pavne et al.	02-03-1998	
		5,742,931		Spiegelhoff et al.	04-21-1998	RECEIVED
		5,754,850		Janssen	05-19-1998	I L O L I V E D
		5,758,327		Gardner et al.	05-26-1998	
		5.758.328		Giovannoli	05-26-1998	OCT 1 7 2002
		5.761.674		Ito	06-02-1998	
		5.765.142		Allred et al.	06-09-1998	Technology Center 2100
		5,768,142		Jacobs	06-16-1998	0, 30, 2,0
		5,842,178		Giovannoli	11-24-1998	
		5,847,971		Ladner et al.	12-08-1998	
		5,873,076		Barr et al.	02-16-1999	
		5,875,110		Jacobs	02-23-1999	

				FO	REIGN PATENT DOCUMEN	rs		
Examiner Initials	Cite No.1	Office <sup>3</sup>	Foreign Patent Doo	kument Kind Code (if known)		Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T'
			WO 01 63449	Α	Empriva Inc.	08-30-2001		$\Box$
			WO 01 67279	Α	Marnell Corrao Assoc.	09-13-2001		Т
			JP 07271569	Α	Hitachi Software	10-20-1995		
			WO 98 43155	Α	MCI Comm. Corp.	10-01-1998		Τ
			EP 0 959 421	A	Autodesk Inc.	11-24-1999		$\vdash$
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Complete if Known Substitute for form 1449B/PTO **Application Number** 10/021,661 INFORMATION DISCLOSURE Filing Date Oct. 30, 2001 First Named Inventor Thomas A. Wucherer Group Art Unit 2171 (use as many sheets as necessary) **Examiner Name** Unknown

STATEMENT BY APPLICANT 5 Attorney Docket Number 2 of Sheet TRIRG-08851US0 OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Ci	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	
Initials* No	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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	http://www.apartments.com.printed.5/22/2000 RECEIVI	tr
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	http://www.us.buy.com printed 5/22/2000  Technology Cente	21
	http://www.designmanager.com printed 3/6/2002	
	THOMAS A. WUCHERER, "An Architectural Design Program Computer Data Base"	${\mathsf T}$
	December 1987	
	TOM FIELD, "Reengineering the Engineering Business", CIO Magazine Feb. 1, 1998	
	P. KRISTOFF, et al., "The Process Specification System for MMST", IEEE TRANSACTIONS	$\vdash$
	OF SEMICONDUCTOR MANUFACTURING, vol. 8, no. 3, Aug. 1995, pp. 262-271	
	J. MCGEE, et al., "The MMST Computer-Integrated Manufacturing System Framework", IEEE	
	TRANSACTIONS ON SEMICONDUCTOR MANUFACTURING, vol. 7, no. 2, May 1994, pp.107-116	i
	T-K PENG, et al., "A Step Toward STEP-Compatible Engineering Data Management: The Data Models of Product Structure And Engineering Changes", ROBOTICS AND COMPUTER INTEGRAT	,
	MANUFACTURING, vol. 14, no. 2, April 1, 1998, pp. 89-109	
	HORI, et al., "OpenMES: Scalable Manufacturing Execution Framework Based On Distributed	
	Object Computing", SYSTEMS, MAN AND CYBERNETICS, 1999, IEEE SMC '99 Conf. Proceeding.  1999 IEEE Int'l Conf., Tokyo, Japan, Oct. 12-15, 1999, pp. 398-403	

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Signature		Considered	

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Complete if Known Substitute for form 1449A/PTO Application Number 10/021,661 INFORMATION DISCLOSURE Oct. 30, 2001 Filing Date First Named Inventor STATEMENT BY APPLICANT Thomas A. Wucherer Group Art Unit 2171 (use as many sheets as necessary) Examiner Name <u>Unknown</u> Attorney Docket Number TRIRG-08851US0 Sheet of 3

				U.S. PATENT DOCL	JMENTS	
Examiner Initials*	Cite No.1	U.S. Patent Number	Document  Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5,895,454		Harrington	04-20-1999	
		5,899,980		Wilf et al.	05-04-1999	
		5,903,877		Berkowitz et al.	05-11-1999	
		5,926,798		Carter	07-20-1999	
		5,932,459		Sittinger et al.	08-03-1999	
		5,946,665		Suzuki et al.	08-31-1999	
		5,950,173		Perkowski	09-07-1999	
		5,956,709		Xue	09-21-1999	
		5,970,472		Allsop et al.	10-19-1999	
		5,970,475		Barnes et al.	10-19-1999	RECEIVED
		5,974,395		Bellini et al.	10-26-1999	THE OLIVED
		5,999,915		Nahan et al.	12-07-1999	OCT 1 7 2002
		6.002.855		Ladner et al.	12-14-1999	001 1 7 2002
		6.009.413		Webber et al.	12-28-1999	Tooksolosso
		6.014.644		Erickson	01-11-2000	Technology Center 2100
		6,026,376		Kenney	02-15-2000	
		6,047,290		Kennedy et al.	04-04-2000	
		6,064,982		Puri_	05-16-2000	
		4,700,318		Ockman	10-13-1987	
		5,189,606		Burns et al.	02-23-1993	

				FORE	IGN PATENT DOCUMEN	TS		
		F	oreign Patent Do	cument	Name of Patentee or	Date of Publication of	Pages, Columns, Lines,	
Examiner nitials*	Cite No. <sup>1</sup>	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> ( <i>if known</i> )	Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
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				U.S. PATENT DOCU	JMENTS	
Examiner Initials*	Cite No.1	U.S. Patent Number	Document Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5,303,144		Kawashima et al.	04-12-1994	
100		5,526,520		Krause	06-11-1996	
		5,655,118		Heindel et al.	08-05-1997	
		5,668,736		Douglas et al.	09-16-1997	
		5,689,705		Fino et al.	11-18-1997	
		5,755,072		Lingafelter	05-26-1998	
		5,761,674		Ito	06-02-1998	
		5,793,632		Fad et al.	08-11-1998	
		5,799,286		Morgan et al.	08-25-1998	
		5,799,318		Cardinal et al.	08-25-1998	DEOFIL
		5,815,829		Zargar	09-29-1998	RECEIVED
		5,826,252		Wolters, Jr., et al.	10-20-1998	
		5.893.082		McCormick	04-06-1999	OCT 1 7 2002
		5.924.094		Sutter	07-13-1999	1 1 2002
		5.950.206		Krause	09-07-1999	Technology Center 210
		5,970,490		Morgenstern	10-19-1999	Tosimology Ochler 210
		5,983,010		Murdock et al.	11-09-1999	
		6,012,066		Discount et al.	01-04-2000	_
		6,029,174		Sprenger et al.	02-22-2000	

FOREIGN PATENT DOCUMENTS									
	011		oreign Patent Do	cument	Name of Patentee or	Date of Publication of	Pages, Columns, Lines,	Τ	
Examiner nitials	Cite No. <sup>1</sup>	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T	
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Sheet 5 of

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Application Number	10/021,661					
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Group Art Unit	2171					
Examiner Name	Unknown					
Attorney Docket Number	TRIRG-08851US0					

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		6,038,547		Casto	03-14-2000	
		5,931,907		Davies et al.	08-03-1999	
		5,991,535		Fowlow et al.	11-23-1999	
		6,363,362	B1	Burfield et al.	03-26-2002	
		6,035,293		Lantz et al.	03-07-2000	
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. 10/021,661 Application Number TRANSMITTAL Oct. 30, 2001 Filing Date **FORM** Thomas A. Wucherer **First Named Inventor** (to be used for all correspondence after initial filing) Group Art Unit 2171 Unknown **Examiner Name** TRIRG-08851US0 Attorney Docket Number Total Number of Pages in This Submission **ENCLOSURES** (check all that apply) Assignment Papers (for an Application) After Allowance Communication Fee Transmittal Form to Group Appeal Communication to Board Fee Attached Drawing(s) of Appeals and Interferences Licensing-related Papers Appeal Communication to Group Amendment / Reply (Appeal Notice, Brief, Reply Brief) Petition After Final Proprietary Information Petition to Convert to a Affidavits/declaration(s) **Provisional Application** Status Letter Power of Attorney, Revocation Change of Correspondence Other Enclosure(s) (please **Extension of Time Request** Address identify below): Copies of References RECEIVED Terminal Disclaimer **Express Abandonment Request** Request for Refund Information Disclosure Statement OCT 1 7 2002 CD, Number of CD(s) Certified Copy of Priority Technology Center 2100 Document(s) Remarks Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Larry E. Vierra, Esq., Vierra Magen Marcus Harmon & DeNiro LLP Individual name Signature Date **CERTIFICATE OF MAILING** I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: October 9, 2002

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